

DETAILED ACTION

1. Claims 1-43 are allowed over the prior art.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Jasper Kwoh (54,921) on 2/23/2010.
4. Claims 1, 3, 5-6, 9, 12, 15, 18, 32-35 have been amended below.

1. (Currently Amended) A computer-implemented method for performing a rolling upgrade in a computing system in which multiple members execute a computer application based at least in part upon a first version of a shared file, comprising:

using a processor for:

creating a second version of the shared file;

bringing down a first member, wherein a second member is not brought down while the first member is down;

generating a first private symbolic link for the first member to reference the second version of the shared file, the first private symbolic link comprising link

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criteria that designates that the first member of a group is authorized to use the first private symbolic link such that the first private symbolic link does not provide a universally visible symbolic link so that the first private symbolic link is not visible to the second member of the group, wherein the first member uses the first private symbolic link and second member uses a second private symbolic link to access different versions of the shared file based such that the first and second private symbolic ~~link is~~ links are used to perform the rolling upgrade in a staggered manner ~~that does not require all members to be brought down~~ in the computing system, wherein the second private symbolic link does not provide the universally visible symbolic link so that the second private symbolic link is not visible to the first member of the group;

bringing up the first member so that the first member references the second version of the shared file; and

storing the private symbolic link in a volatile or non-volatile computer usable medium or displaying the private symbolic link on a display device.

3. (Currently Amended) The method of claim 2 in which the first private symbolic link and the second symbolic links are the same, and wherein both the first and second members of the group associated with the first private symbolic link.

5. (Currently Amended) The method of claim 2 in which the first private symbolic link for the first member references a first private copy of the second version of the

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shared file and the second private symbolic link for the second member references a second private copy of the second version of the shared file.

6. (Currently Amended) The method of claim 2 in which the first private symbolic link for the first member and the second symbolic link for the second member references the same copy of the second version of the shared file.

9. (Currently Amended) The method of claim 1 in which the first private symbolic link comprises a properly that identifies a link criteria.

12. (Currently Amended) The method of claim 1 in which the direct object reference is automatically created by removing the first private symbolic link.

15. (Currently Amended) The method of claim 1 in which the first private symbolic link is private to a member.

18. (Currently Amended) A computer implemented method for redirecting a reference from an entity to one or more shared files, comprising:

creating a first version of a shared file;

creating a second version of a shared file;

creating a first private symbolic link to reference the first version of the shared file, the first private symbolic link comprising link criteria that designates that members

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in a first group are authorized to use the first private symbolic link such that the first private symbolic link does not provide a universally visible symbolic link so that the first private symbolic link is not visible to members of a second group, wherein the members of the second group can not access the first version of the shared file such that by utilizing the first private symbolic link is used to perform the rolling upgrade in a first staggered manner ~~that does not require all members to be brought down~~;

creating a second private symbolic link to reference the second version of the shared file, the second private symbolic link only applying to the members of the second group associated with the second private symbolic link such that the second private symbolic link does not provide the universally visible symbolic link so that the second private symbolic link is not visible to the members of the first group, wherein the members of the first group can not access the second Version of the shared file such that by utilizing the second private symbolic link is used to perform the rolling upgrade in a second stagger manner ~~that does not require all members to be brought down~~; and

storing the first private symbolic link and/or the second private symbolic link in a volatile or non-volatile computer usable medium or displaying the first private symbolic link and/or the second private symbolic link on a display device.

32. (Currently Amended) A computer implemented system for performing a rolling upgrade in a computing system in which multiple members execute a computer application based at least in part upon a first version of a shared file, comprising:
a processor for:

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creating a second version of the shared file;

bringing down a first member, wherein a second member is not brought down while the first member is down;

generating a private symbolic link for the first member to reference the second version of the shared file, the private symbolic link comprising link criteria that designates that the first member of a group is authorized to use the private symbolic link such that the private symbolic link does not provide a universally visible symbolic link so that the private symbolic link is not visible to the second member of the group, wherein the first member uses the private symbolic link and second member uses a second private symbolic link to access different versions of the shared file such that the private symbolic link is used to perform during the rolling upgrade in stagger manner ~~that do not require all members to be brought down~~ in the computing system, wherein the second private symbolic link dose not provide the universally visible symbolic so that second private symbolic is not visible to the first member of the group;

bringing up the first member so that the first member references the second version of the shared file: and

a volatile or non-volatile computer usable medium for storing the first private symbolic link or a display device for displaying the first private symbolic link.

33. (Currently Amended) A computer program product comprising a volatile and non-volatile computer usable medium having executable code to execute a process by using a processor for performing a rolling upgrade in a computing system in which

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multiple members execute a computer application based at least in part upon a first version of a shared file, the process comprising:

creating a second version of the shared file;

bringing down a first member, wherein a second member is not brought down while the first member is down;

generating a first private symbolic link for the first member to reference the second version of the shared file, the first private symbolic link comprising link criteria that designates that the first member of a group is authorized to use the first private symbolic link such that the first private symbolic link does not provide a universally visible symbolic link so that the first private symbolic link is not visible to the second member of the group, wherein the first member uses the first private symbolic link and second member uses a second private symbolic link to access different versions of the shared file such that the private symbolic link is used to perform the rolling upgrade in a staggered manner ~~that do not require all members to be brought down~~ in the computing system, wherein the second private symbolic link does not provide the universally visible symbolic link so that the second private symbolic link is not visible to the first member of the group;

bringing up the first member so that the first member references the second version of the shared file; and

storing the first private symbolic link or displaying the first private symbolic link on a display device.

34. (Currently Amended) A computer implemented system for redirecting a reference from an entity to one or more shared files, comprising:

using a processor for:

creating a first version of a shared file;

creating a second version of a shared file;

creating a first private symbolic link to reference the first version of the shared file, the first private symbolic link comprising link criteria that designates that members in a first group are authorized to use the first private symbolic link such that the first private symbolic link does not provide a universally visible symbolic link so that the first private symbolic link is not visible to members of a second group, wherein the members of the second group can not access the first version of the shared file such that .by utilizing the first private symbolic link is used to perform the rolling upgrade in a first staggered manner ~~that does not require all members to be brought down~~; and

creating a second private symbolic link to reference the second version of the shared file, the second private symbolic link only applying to the members of the second group associated with the second private symbolic link such that the second private symbolic link does not provide the universally visible symbolic link so that the second private symbolic link is not visible to the members of the first group, wherein the members of the first group can not access the second version of the shared file such that by utilizing the second private symbolic link is used to

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perform the rolling upgrade in a second staggered manner ~~that does not require all members to be brought down~~; and

storing the first private symbolic link and/or the second private symbolic link or displaying the first private symbolic link and/or the second private symbolic link on a display device.

35. (Currently Amended) A computer program product comprising a volatile or non-volatile computer usable medium having executable code to execute a process by using a processor for redirecting a reference from an entity to one or more shared files, the process comprising:

creating a first version of a shared file;

creating a second version of a shared file;

creating a first private symbolic link to reference the first version of the shared file, the first private symbolic link comprising link criteria that designates that members in a first group are authorized to use the first private symbolic link such that the first private symbolic link does not provide a universally visible symbolic link so that the first private symbolic link is not visible to members of a second group, wherein the members of the second group can not access the first version of the shared file such that by utilizing the first private symbolic link is used to perform rolling upgrade in staggered manner ~~that does not require all members to be brought down~~;

creating a second private symbolic link to reference the second version of the shared file, the second private symbolic link only applying to the members of the second

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group associated with the second private symbolic link such that the second private symbolic link does not provide the universally visible symbolic link so that the second private symbolic link is not visible to the members of the first group, wherein the members of the first group can not access the second version of the shared file such that by utilizing the second private symbolic link is used to perform the rolling upgrade in a second staggered manner ~~that does not require all members to be brought down~~; and

storing the first private symbolic link and/or the second private symbolic link or displaying the first private symbolic link and/or the second private symbolic link on a display device.

36. (Currently Amended) The system of claim 32 in which the first private symbolic link is private to a member.

38. (Currently Amended) The product of claim 33 in which the first private symbolic link is private to a member.

Examiner's Statement of Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

6. Burgoon (US 5,706,510), Earl et al. (US 6,966,058), Dervin et al. (US 7,130,897), and Sander et al. (US 7,505,971) taken alone or in combination fail to teach or reasonably suggest *"the first private symbolic link does not provide a universally visible symbolic link so that the first private symbolic link is not visible to the second member of*

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the group, wherein the first member uses the first private symbolic link and second member uses a second private symbolic link to access different versions of the shared file such that the first and second private symbolic links are used to perform the rolling upgrade in a staggered manner in the system, wherein the second private symbolic link does not provide the universally visible symbolic link so that the second private symbolic link is not visible to the first member of the group" in combination with other claim limitations recited in the independent claims 1, 18, 32-35.

7. It would not have been obvious to one having an ordinary skill in the art at the time the invention was made to combine Burgoon, Earl et al., Dervin et al., and Sander et al. to obtain the claimed invention.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip H. Nguyen whose telephone number is (571) 270-1070. The examiner can normally be reached on Monday - Thursday 10:00 AM - 3:00 PM EST.

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10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PN

2/28/2010

/Wei Y Zhen/

Supervisory Patent Examiner, Art Unit 2191